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STIC-Biotech/ChemLib

From: Kaushal, Sumesh
Sent: Monday, April 05, 2004 1:39 PM
To: STIC-Biotech/ChemLib
Subject: 09613486: Interference and Sequence search

09/613,486: Interference and Sequence search

Please Search

- SEQ ID NO:14 DNA 597 nt long
- SEQ ID NO:15 PRT 198 aa long
- Search amino acid of SEQ ID NO:15 against DNA database

thanks

S. Kaushal

AU1636, REM2.B85

Ph: 571-27-20769

Mail Box: REM2.C70

- Interference search files removed - 4/13/04 SK

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: _____
Date Completed: _____
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

L Number	Hits	Search Text	DB	Time stamp
3	11514	Agrobacterium	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
5	7553	Agrobacterium NEAR (vitis or tumefaciens)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
6	681	(Agrobacterium NEAR (vitis or tumefaciens)) and grape	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
7	312	Agrobacterium NEAR (vitis or tumefaciens).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
1	2	HAI ADJ YING NEAR zhu	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
2	16	Grapevine ADJ leafroll ADJ virus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
4	9	(Grapevine ADJ leafroll ADJ virus) and Agrobacterium	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
8	40	(Agrobacterium NEAR (vitis or tumefaciens).clm.) and grape	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
9	138	(Agrobacterium NEAR (vitis or tumefaciens).clm.) and (host ADJ cell)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
10	6	(US-5907085-\$ or US-6558953-\$ or US-6638720-\$ or US-5459252-\$ or US-5648477-\$ or US-5668298-\$ or US-6197948-\$).did. or (US-20030198942-\$).did. or (WO-9853055-\$ or WO-9722700-\$ or WO-9955880-\$).did. or (WO-200105957-\$).did.	USPAT; US-PGPUB; EPO; DERWENT	2004/04/13 14:53
11	12	(US-5648477-\$ or US-5668298-\$ or US-5459252-\$ or US-6197948-\$ or US-6638720-\$ or US-6558953-\$ or US-5907085-\$).did. or (US-20030198942-\$).did. or (WO-9853055-\$ or WO-9722700-\$ or WO-9955880-\$).did. or (WO-200105957-\$).did.	USPAT; US-PGPUB; EPO; DERWENT	2004/04/13 14:53

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(FILE 'HOME' ENTERED AT 14:55:36 ON 13 APR 2004)

FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED
AT 14:55:44 ON 13 APR 2004

L1 241 S GRAPEVINE (L) LEAFROLL (L) VIRUS
L2 65 S L1 AND (COAT PROTEIN)
L3 37 DUP REM L2 (28 DUPLICATES REMOVED)
L4 14 S L3 AND PY<=1997
L5 14 SORT L4 PY

=> d an ti so au ab pi l5 10 13 14

L5 ANSWER 10 OF 14 MEDLINE on STN
AN 97372946 MEDLINE
TI The **coat protein** gene of grapevine leafroll associated
closterovirus-3: cloning, nucleotide sequencing and expression in
transgenic plants.
SO Archives of virology, (1997) 142 (6) 1101-16.
Journal code: 7506870. ISSN: 0304-8608.
AU Ling K S; Zhu H Y; Alvizo H; Hu J S; Drong R F; Slightom J L; Gonsalves D
AB A lambda ZAP II cDNA library was constructed by cloning cDNA prepared from
a high molecular weight double-stranded RNA (dsRNA, ca. 18 kb) isolated
from **grapevine leafroll** associated closterovirus-3
(GLRaV-3) infected tissues. This cDNA library was immuno-screened with
GLRaV-3 **coat protein** specific polyclonal and
monoclonal antibodies and three immuno-positive clones were identified.
Analysis of nucleotide sequences from these clones revealed an open
reading frame (ORF) which was truncated at the 3' end; the remainder of
this ORF was obtained by sequencing a fourth clone that overlapped with
one of the immunopositive clones. A total of 2028 bp was sequenced. The
putative GLRaV-3 **coat protein** ORF, 939 bp, encodes a
protein (referred to as p35) with a calculated M(r) of 34866. Multiple
alignment of the p35 amino acid sequence with **coat
protein** sequences from other closteroviruses revealed that the
consensus amino acid residues (R and D) of filamentous plant
viruses are preserved in the expected locations. The GLRaV-3
coat protein gene was then engineered for sense and
antisense expression in transgenic plants. Transgenic Nicotiana
benthamiana plants that contain the sense GLRaV-3 **coat
protein** gene produced a 35 kDa protein that reacted with GLRaV-3
antibody in Western blot.

L5 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:501512 CAPLUS
DN 127:131978
TI **Grapevine leafroll virus** proteins and uses
in producing transgenic **virus**-resistant grape or citrus plants
SO PCT Int. Appl., 171 pp.
CODEN: PIXXD2
IN Gonsalves, Dennis; Ling, Kai-Shu
AB The present invention relates to an isolated protein or polypeptide
corresponding to a **coat protein** or other polypeptide
of a **grapevine leafroll virus**. The encoding
DNA mol. either alone in isolated form or in an expression system, a host
cell, or a transgenic grape plan is also disclosed. Another aspect of the
present invention relates to a method of imparting **grapevine
leafroll** resistance to grape plants by transforming them with the
DNA mol. of the present invention. A method for imparting tristeza
virus resistance in citrus plants using the DNA mol. of the
present invention is also disclosed.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9722700	A2	19970626	WO 1996-US20747	19961220 <--
	WO 9722700	A3	19971211		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,

STN: SEARCH HISTORY

LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
MR, NE, SN, TD, TG

ZA 9610721	A	19980619	ZA 1996-10721	19961219
CA 2242402	AA	19970626	CA 1996-2242402	19961220 <--
AU 9716889	A1	19970714	AU 1997-16889	19961220 <--
AU 727208	B2	20001207		
EP 896624	A2	19990217	EP 1996-945666	19961220
R: AT, CH, DE, ES, FR, IT, LI, PT, SI				
US 6558953	B1	20030506	US 2000-579259	20000525
US 6638720	B1	20031028	US 2000-650324	20000829
US 2003198942	A1	20031023	US 2001-39112	20011231

L5 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:335128 CAPLUS
DN 126:303462
TI Antibodies and proteins useful for assaying virus infection in grape
plants
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
IN Monis, Judit; Bestwick, Richard K.
AB An approx. 37 kDa (kd) protein associated with **grapevine**
leafroll disease infected plants is disclosed. The 37 kDa protein
is the **coat protein** for a **grapevine**
leafroll-associated virus designated GLRaV-8. The
grapevine virus-encoded 37 kDa polypeptide is immunol.
distinct from the approx. 36 kDa proteins associated with GLRaV-4 or GLRaV-5
or the approx. 38 kDa protein associated with GLRaV-1. The invention further
provides a substantially pure antibody directed against the 37 kDa
virus-associated protein, a stable cell line capable of producing
such a monoclonal antibody, and a method for assaying for a **virus**
infection in Vitis species. The method involves detecting the presence of
a 37 kDa polypeptide encoded by an RNA-containing plant **virus** using
an antibody that does not react with a virally encoded polypeptide of
approx. 38 kDa.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI EP 769696	A2	19970423	EP 1996-306866	19960920 <--
EP 769696	A3	19980805		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5965355	A	19991012	US 1996-708591	19960905

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